Year 7 Milestone Criteria

Design & Technology

Assessment Objectives

DT1 – Properties and uses of materials/ingredients
DT2 – Research and design specification
DT3 – Analysis of existing products
DT4 – Developing and presenting design solutions
DT5 – Planning and manufacture of quality products
DT6 – Evaluation of own product
DT7 – Knowledge and understanding of electronics
DT9 – Knowledge and understanding of health and nutrition

PURPLE	DT1	Apply knowledge of materials/ingredients and explain why they are appropriate for a product.	
	DT2	Analyse research to create a justified specification.	
	DT3	Apply the understanding of a brief to critically analyse existing products.	
	DT3	Evaluate the analysis of existing products to create relevant design criteria.	
	DT4	Develop a range of detailed and realistic design solutions to meet design criteria.	
	DT4	Accurate use of graphic techniques and scale.	
	DT5	Apply knowledge of manufacture by planning the manufacture of product.	
	DT5	Adapt design and manufacture to overcome problems while making a product.	
	DT5	Independently select and use tools/equipment with precision to manufacture a product from a plan.	
	DT5	Manufacture a fully functional product with a high quality of finish.	
	DT6	Use design criteria to critically evaluate a product.	
	DT6	Explain realistic improvement to a product.	
	DT7	Apply knowledge of electronics to fault find a circuit	
	DT9	Apply understanding of the function of the main macronutrients when designing a balanced diet.	
BLUE	DT1	Demonstrate an understanding of materials and ingredients when working with them.	
	DT2	Consider the user's needs and justify specification points.	
	DT3	Analyse products to build comparisons of similar products, justifying the points made.	
	DT4	Accurate use of basic graphic techniques when presenting design ideas.	
	DT4	Develop a range of annotated design ideas to meet a design brief.	
	DT5	Apply knowledge of manufacture by selecting appropriate tools and processes.	
	DT5	Read scales to measure and mark out materials with accuracy – within 1mm/25g/15ml.	
	DT5	Manufacture a functioning product with a good quality of finish.	
	DT6	Apply design criteria to evaluate own product.	
	DT7	Explain the function of each component in a simple circuit.	
	DT9	Explain the main function of the main macronutrients	
GREEN	DT1	Explain the key differences between groups of materials and foods.	
	DT2	Develop a list of 5-6 relevant criteria for a product specification.	
	DT3	Use ACCESS FM system to analyse an existing product.	
	DT3	Identify simple comparisons between similar products.	
	DT4	Develop alternative design ideas to a design problem.	
	DT4	Use labels to explain the key aspects of a design idea.	
	DT5	Recall names of tools and processes used.	
	DT5	Read scales to measure and mark out materials with some accuracy – within 1cm/100g/100ml.	
	DT5	Can use larger, more complex equipment safely.	
	DT5	Complete a functioning product, paying attention to quality of finish/presentation.	
	DT6	Reflect on your product and suggest suitable improvements that could be made.	
	DT7	Recall the names and functions of commonly used electrical components	
	DT9	Recall the main function of the main macronutrients	
YELLOW	DT1	Recall a names and key information about the materials used.	
	DT2	Produce a simple list of qualities that a product should have.	
	DT3	Highlight the positive and negative aspects of an existing product.	
	DT4	Present a simple drawing of a design idea which meets the brief.	
	DT5	Can use hand tools and equipment safely.	
	DT5	Produce a product which functions adequately.	
	DT6	List the positive and negative aspects of your own product.	

	DT7	Follow instructions to build a simple circuit	
	DT9	Recall the food groups from the eatwell guide	